

FIG.1

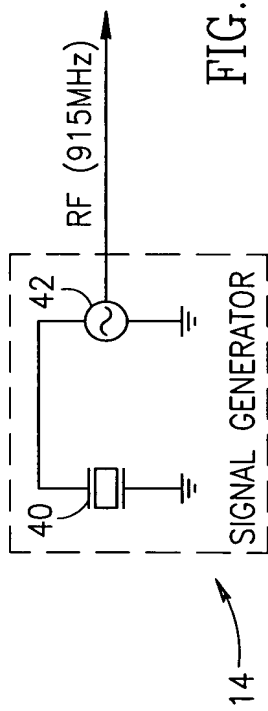


FIG. 2

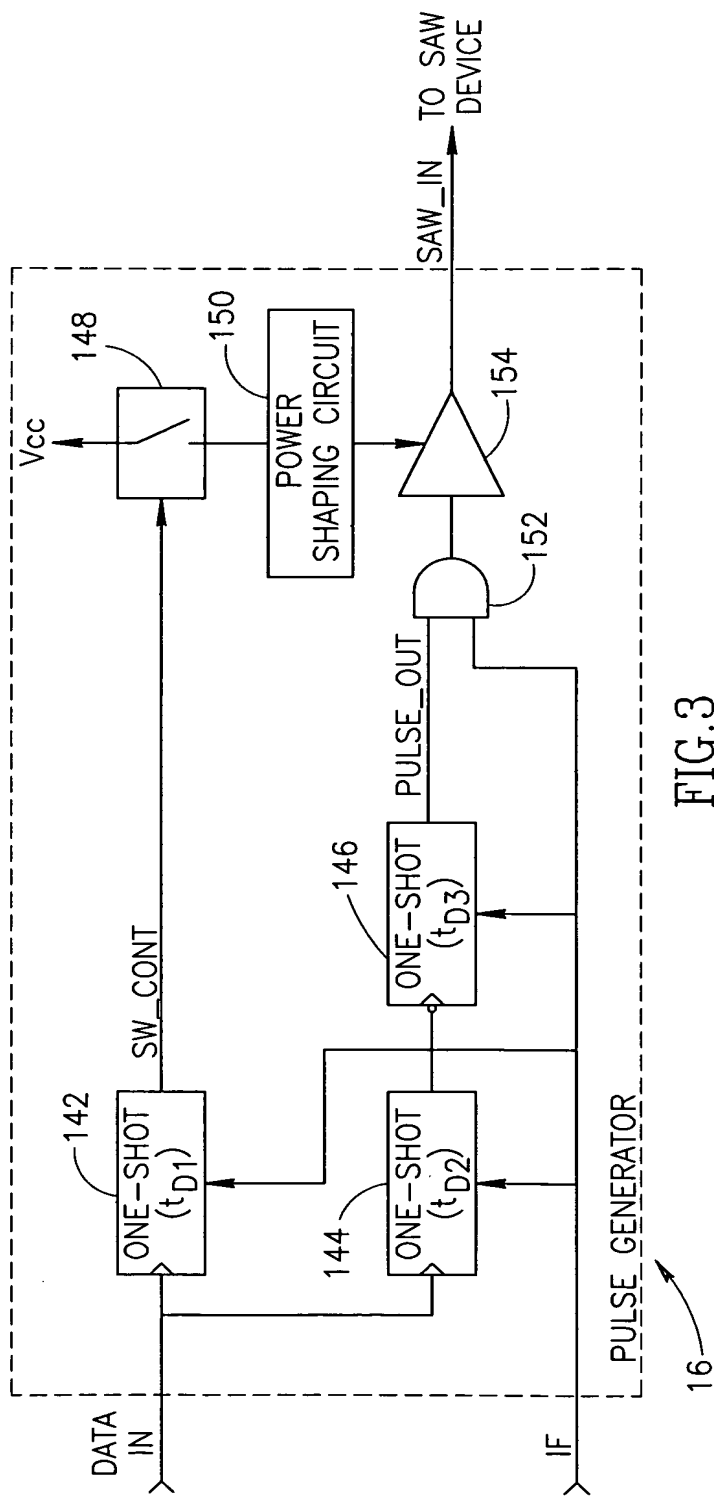


FIG. 3

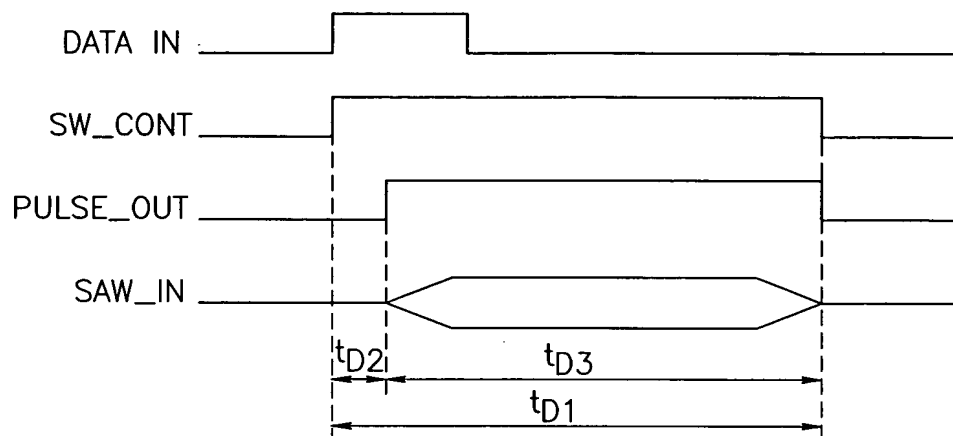


FIG.4

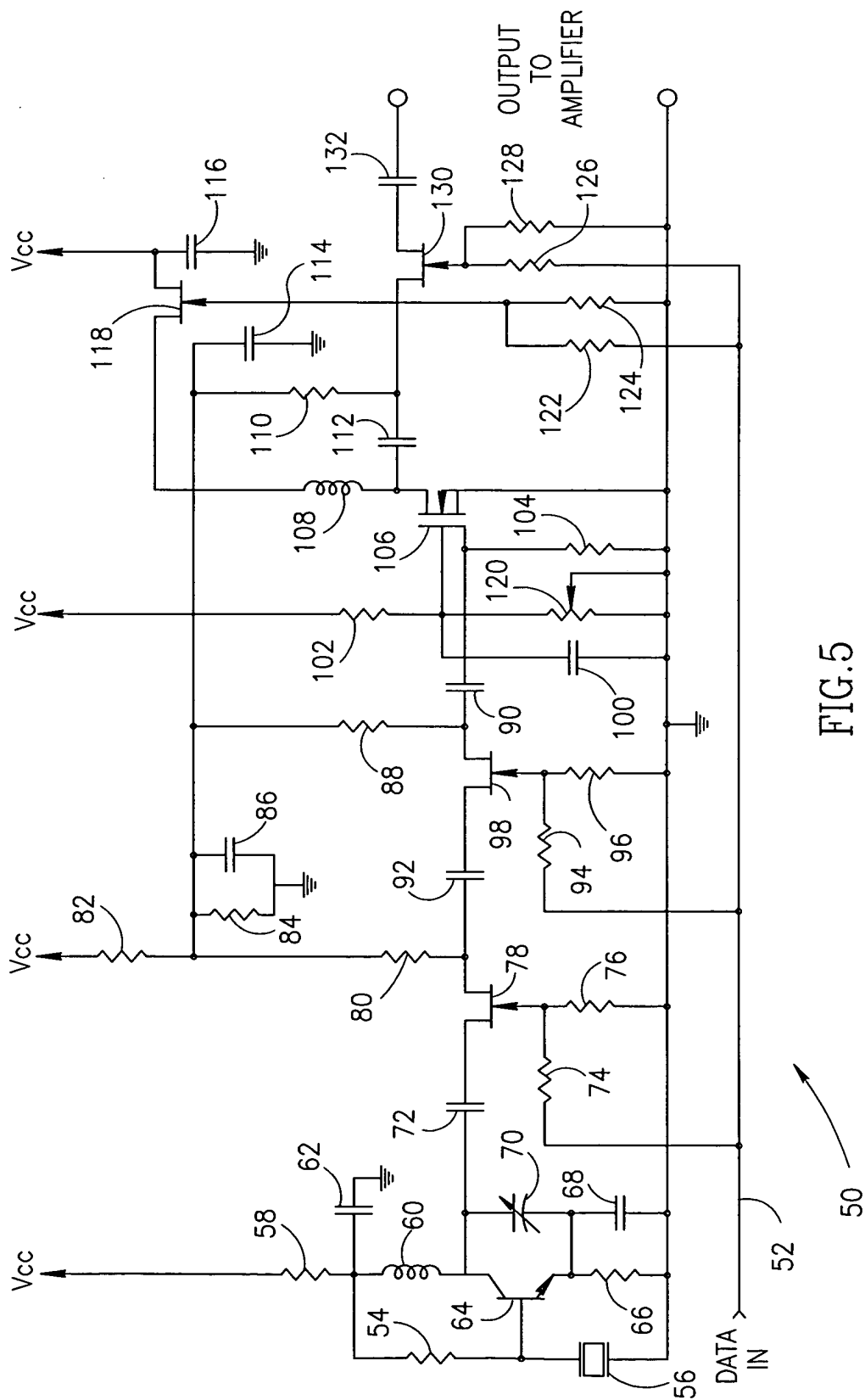
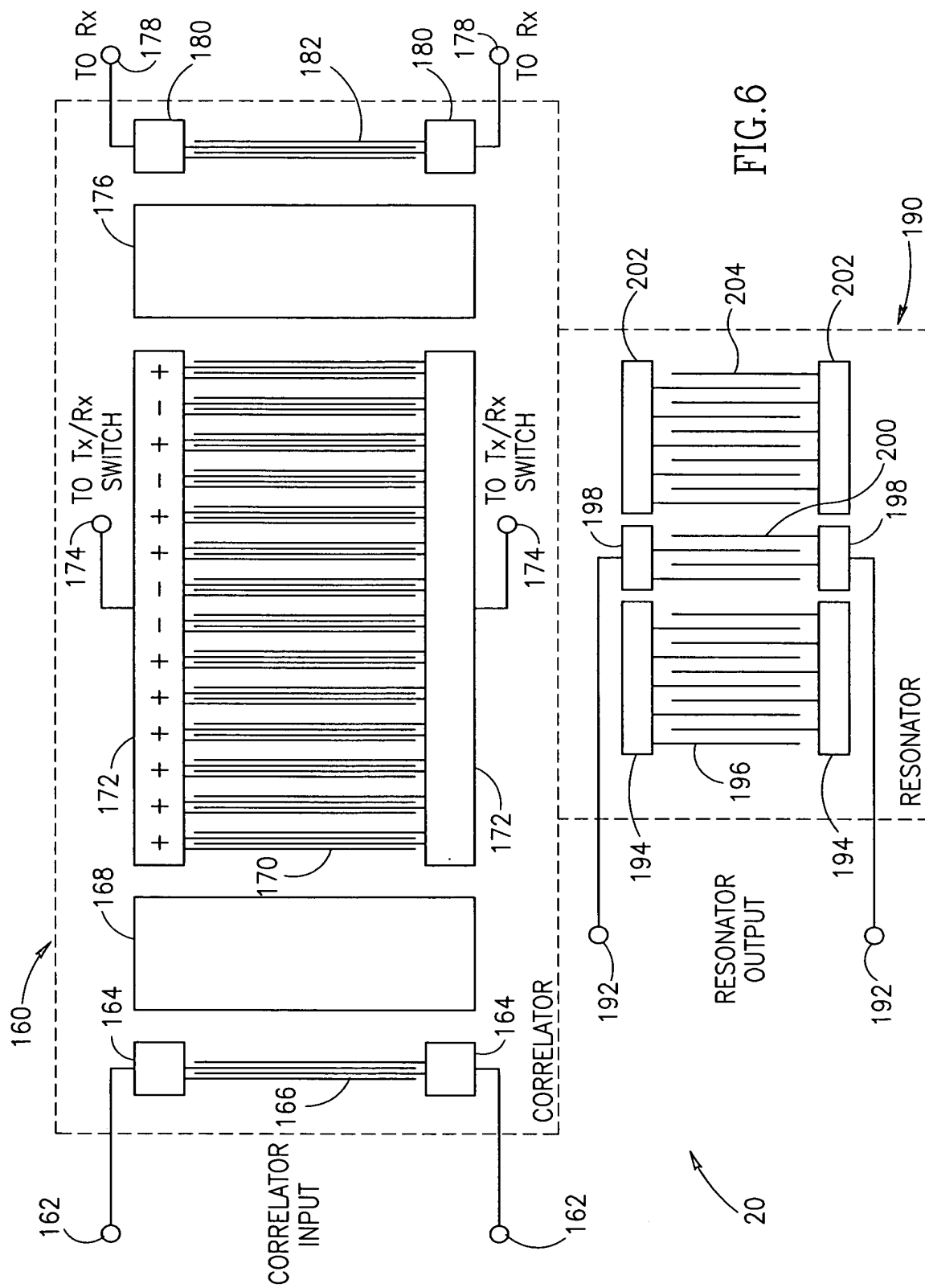


FIG.5



1

POWER ↑

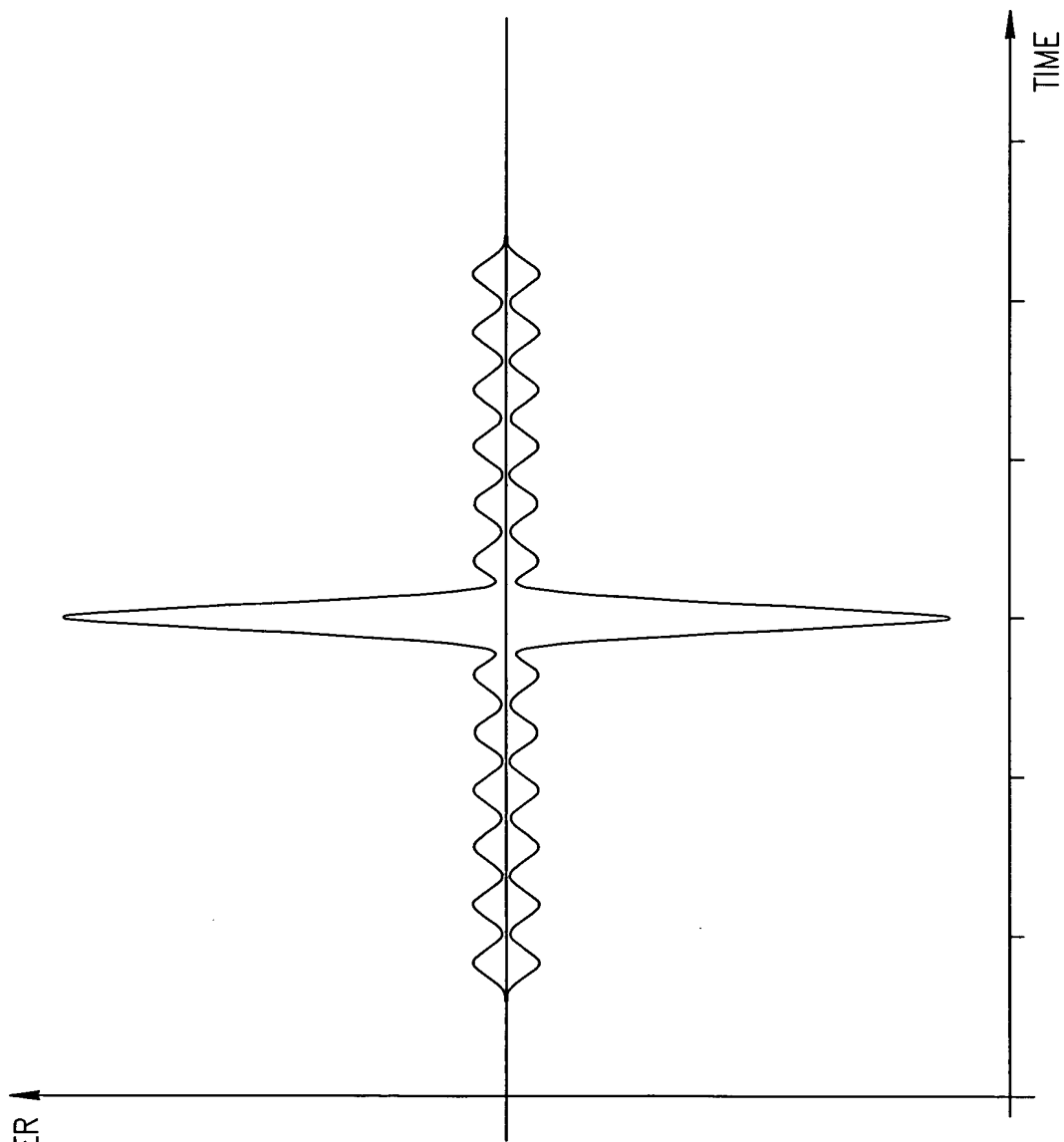


FIG. 9

Figure 10 is a graph showing Power A versus Time. The vertical axis is labeled "POWER A" and the horizontal axis is labeled "TIME". The graph displays a sharp, narrow peak at the center, with a small, oscillatory feature just below the peak. The peak is labeled "10".

TIME

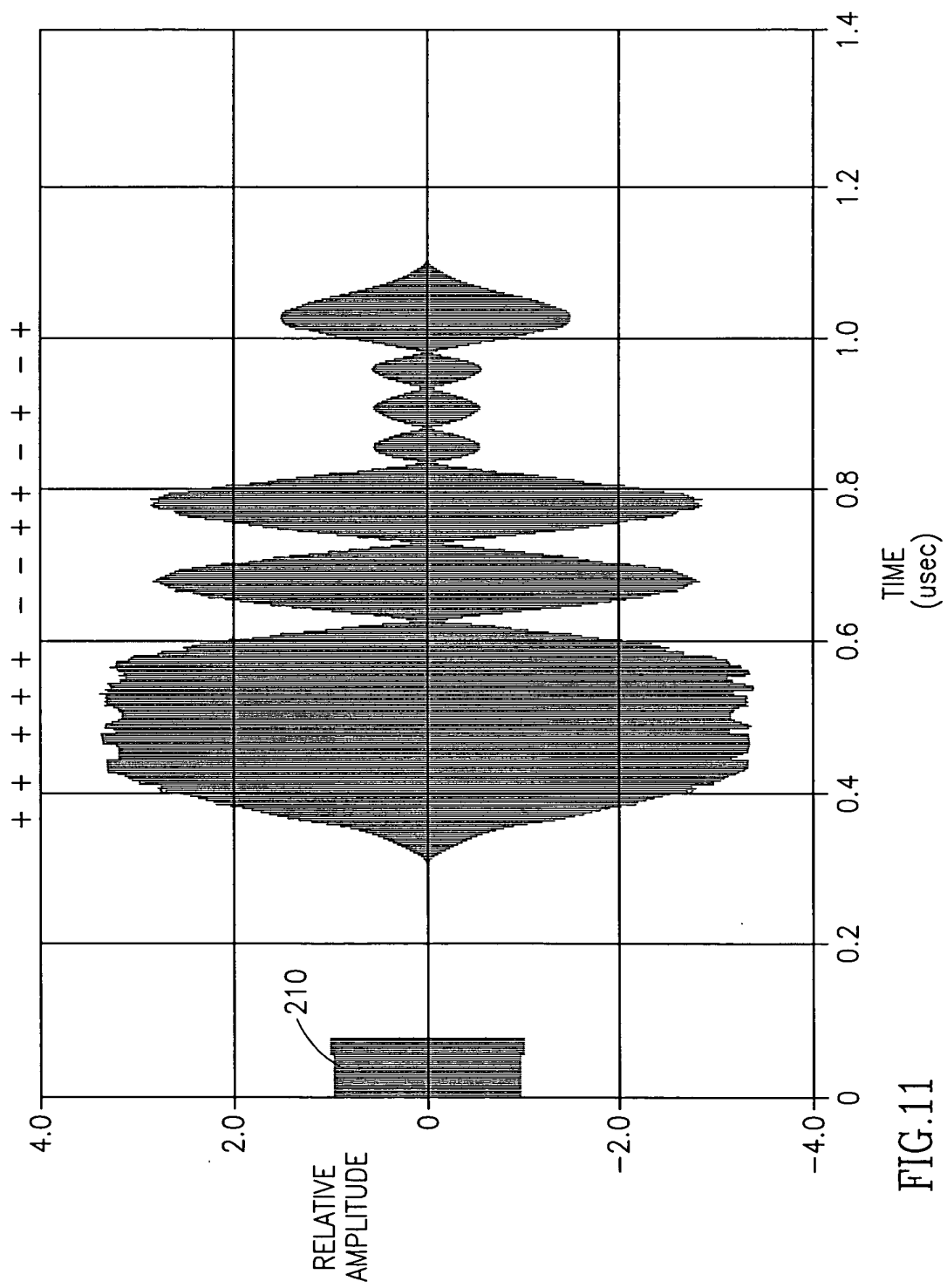
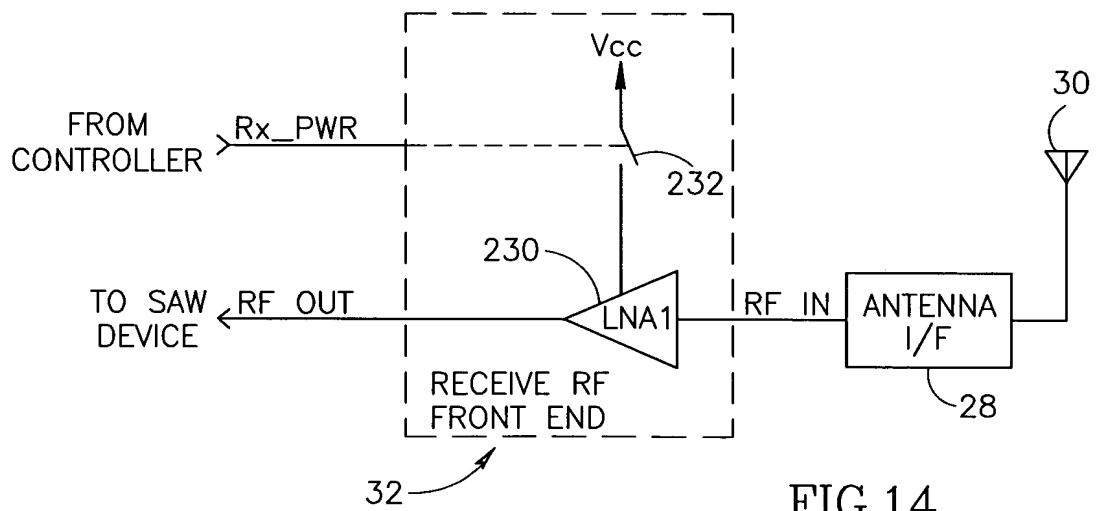


FIG.11



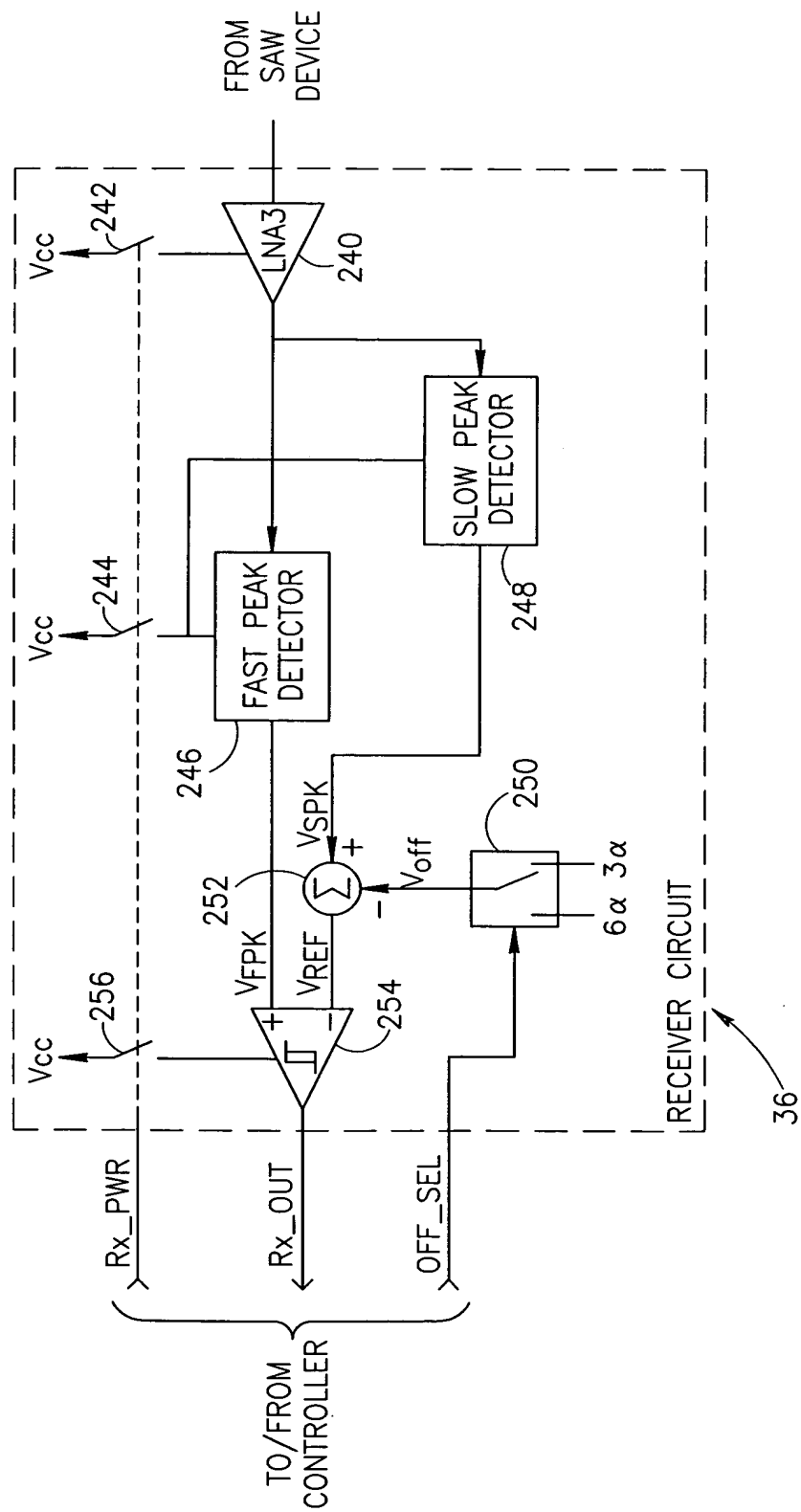


FIG.15

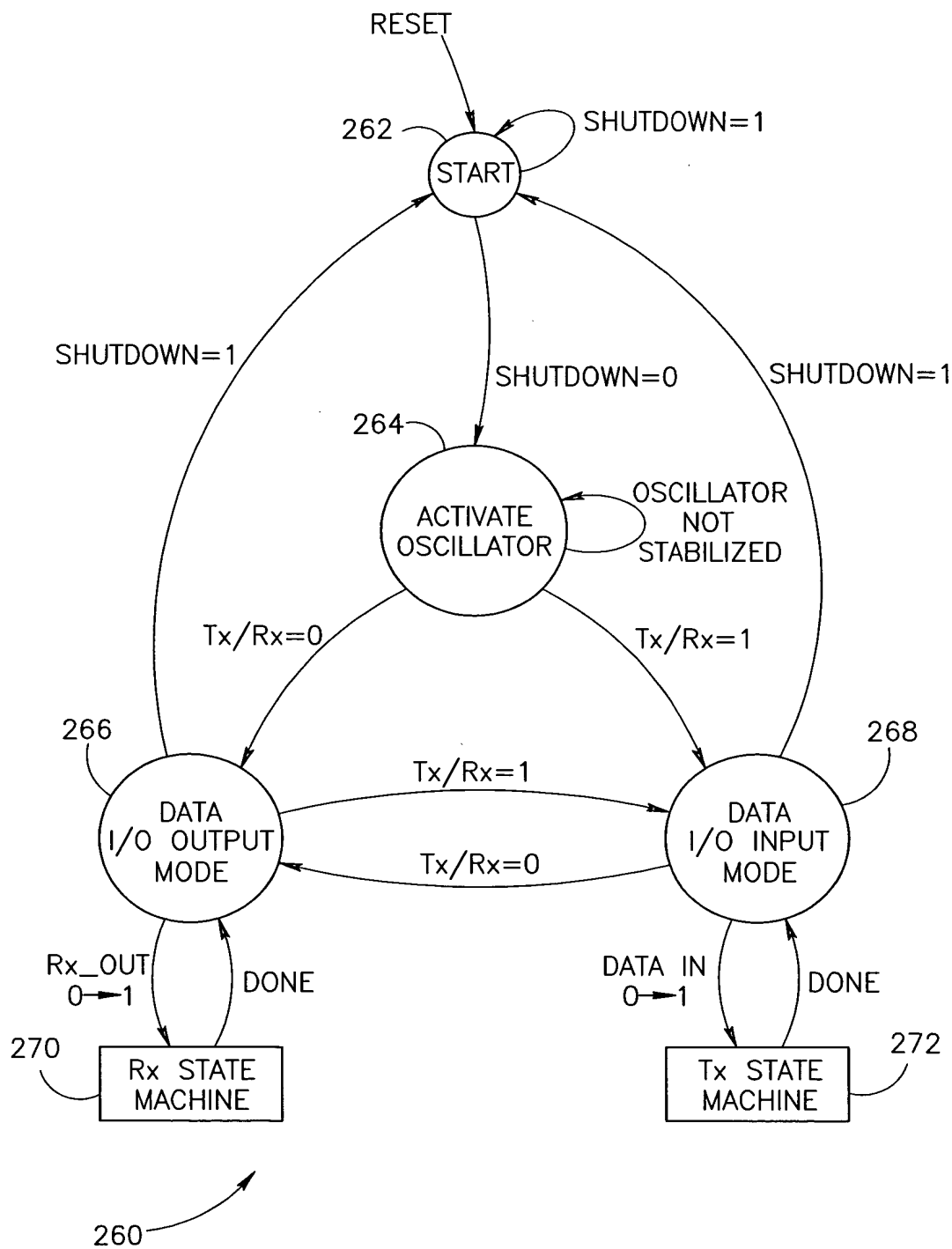


FIG.16

```

graph TD
    Start([START 280]) --> TD1([TIME DELAY 292])
    Start --> EP([ENABLE PULSE 282])
    TD1 --> TOA([TURN ON AMPLIFIER 294])
    TOA --> TD2([TIME DELAY 296])
    TD2 --> TOFA([TURN OFF AMPLIFIER 298])
    TOFA --> Done1([DONE])
    EP --> TD3([TIME DELAY 284])
    TD3 --> GP([GENERATE PULSE 286])
    GP --> TD4([TIME DELAY 288])
    TD4 --> DP([DISABLE PULSE 290])
    DP --> Done2([DONE])
    Done1 --> Start
    Done2 --> Start

```

TO/FROM DATA I/O
INPUT MODE STATE

DATA IN
0→1

DATA IN
0→1

DONE

280

START

292

TIME DELAY

294

TURN ON AMPLIFIER

296

TIME DELAY

298

TURN OFF AMPLIFIER

DONE

282

ENABLE PULSE

284

TIME DELAY

286

GENERATE PULSE

288

TIME DELAY

290

DISABLE PULSE

DONE

Tx STATE MACHINE

272

272.

```

graph TD
    Rx_OUT[Rx_OUT  
0 → 1] --> 300
    subgraph Rx_STATE_MACHINE [Rx STATE MACHINE]
        300([300  
RAISE  
DATA OUT]) --> 302([302  
TIME  
DELAY])
        302 --> 304([304  
LOWER  
DATA OUT])
        304 --> 300
    end
    304 --> Output[TO/FROM DATA I/O  
OUTPUT MODE STATE]

```

FIG. 18

FIG.19

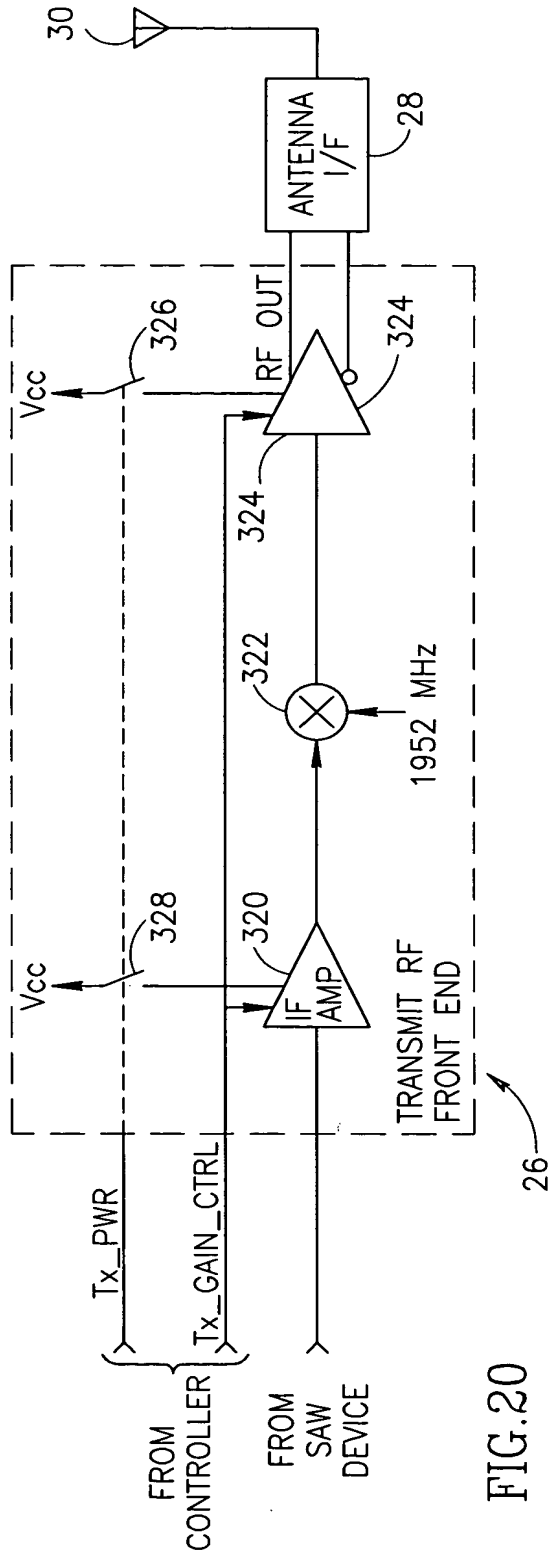


FIG. 20

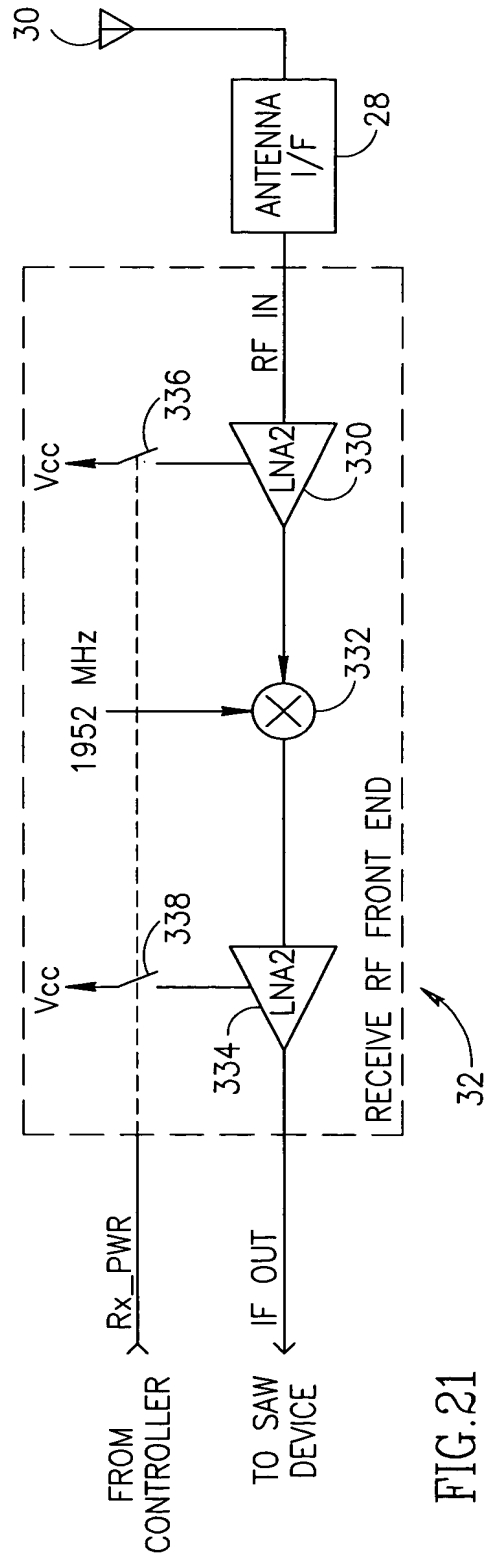


FIG. 21

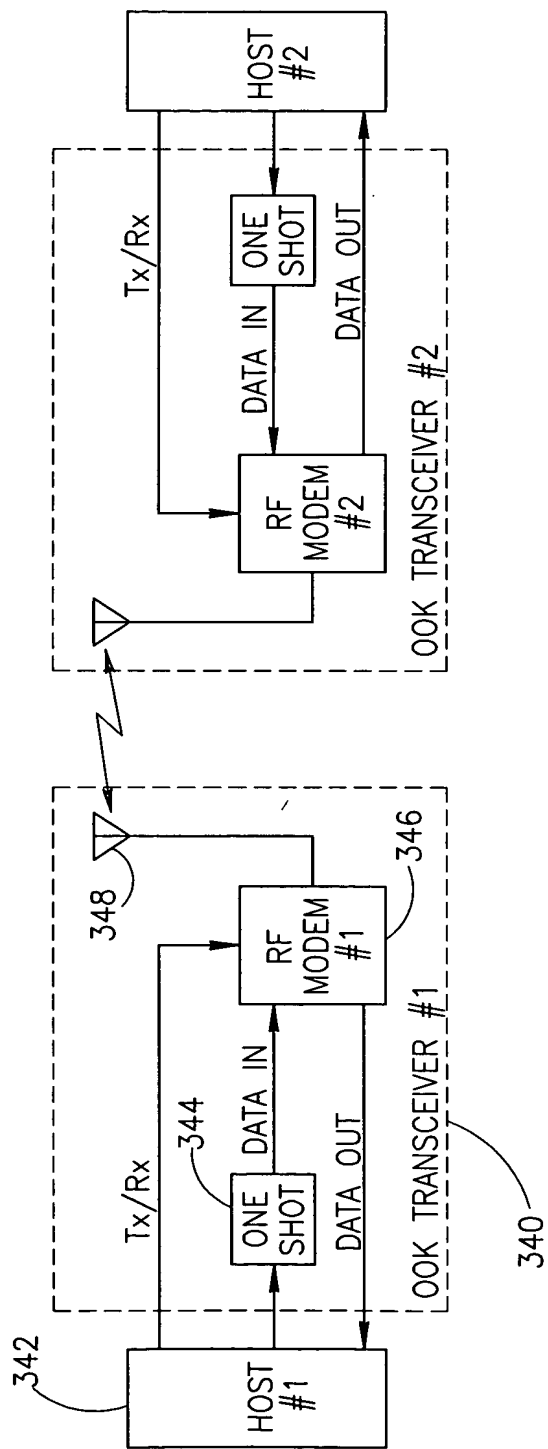


FIG.22

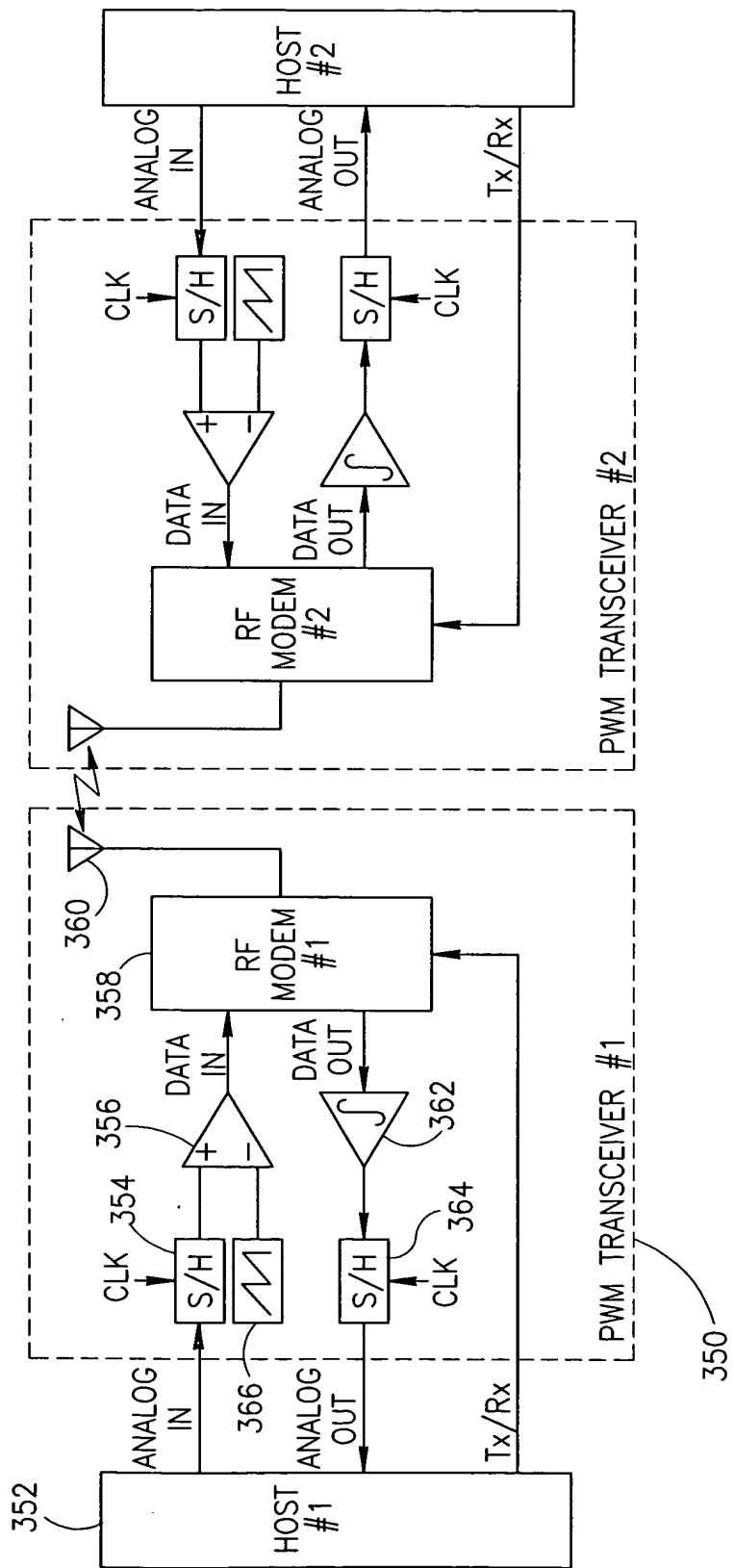


FIG. 23

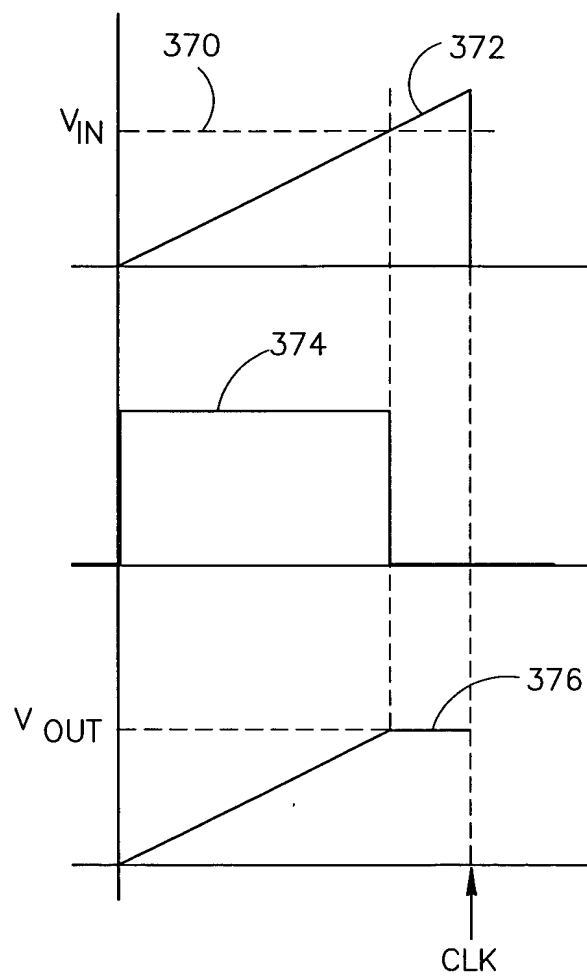


FIG.24

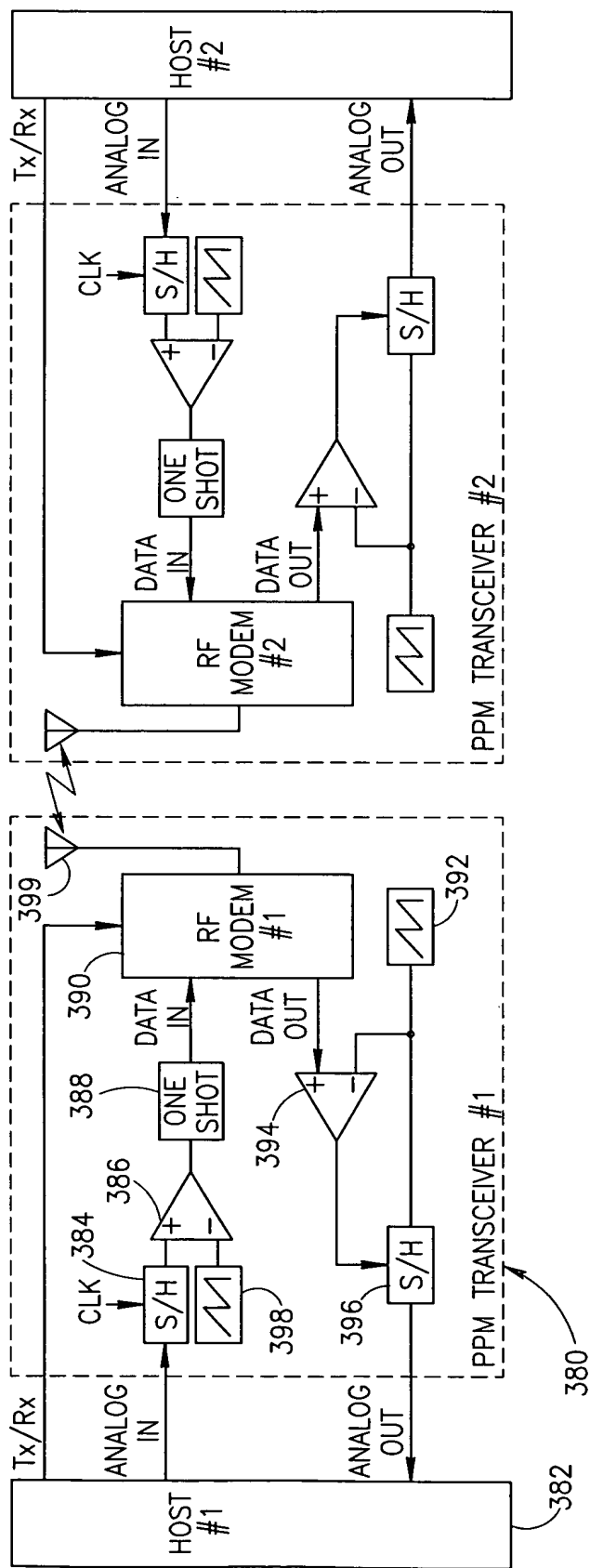


FIG.25

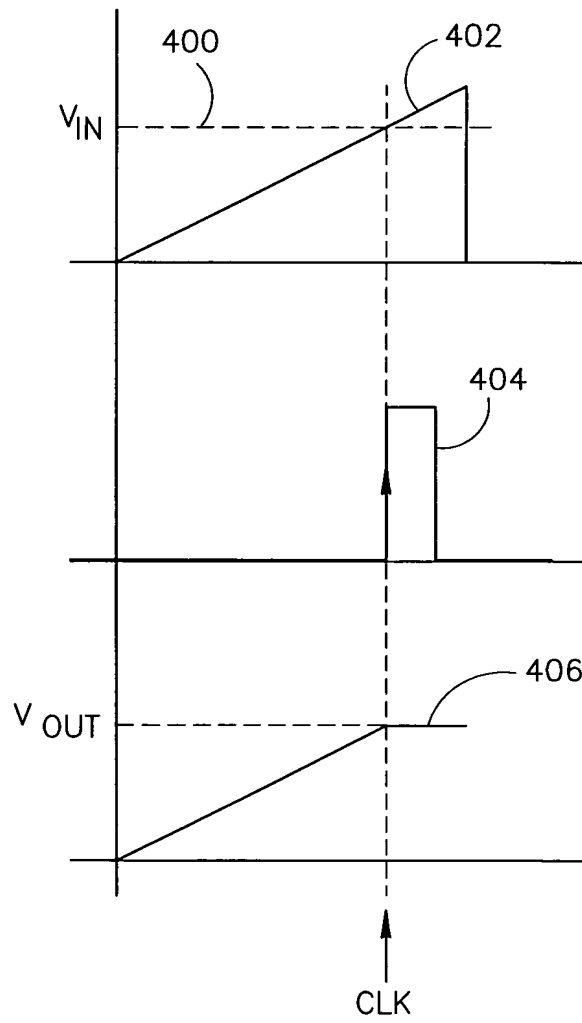


FIG.26

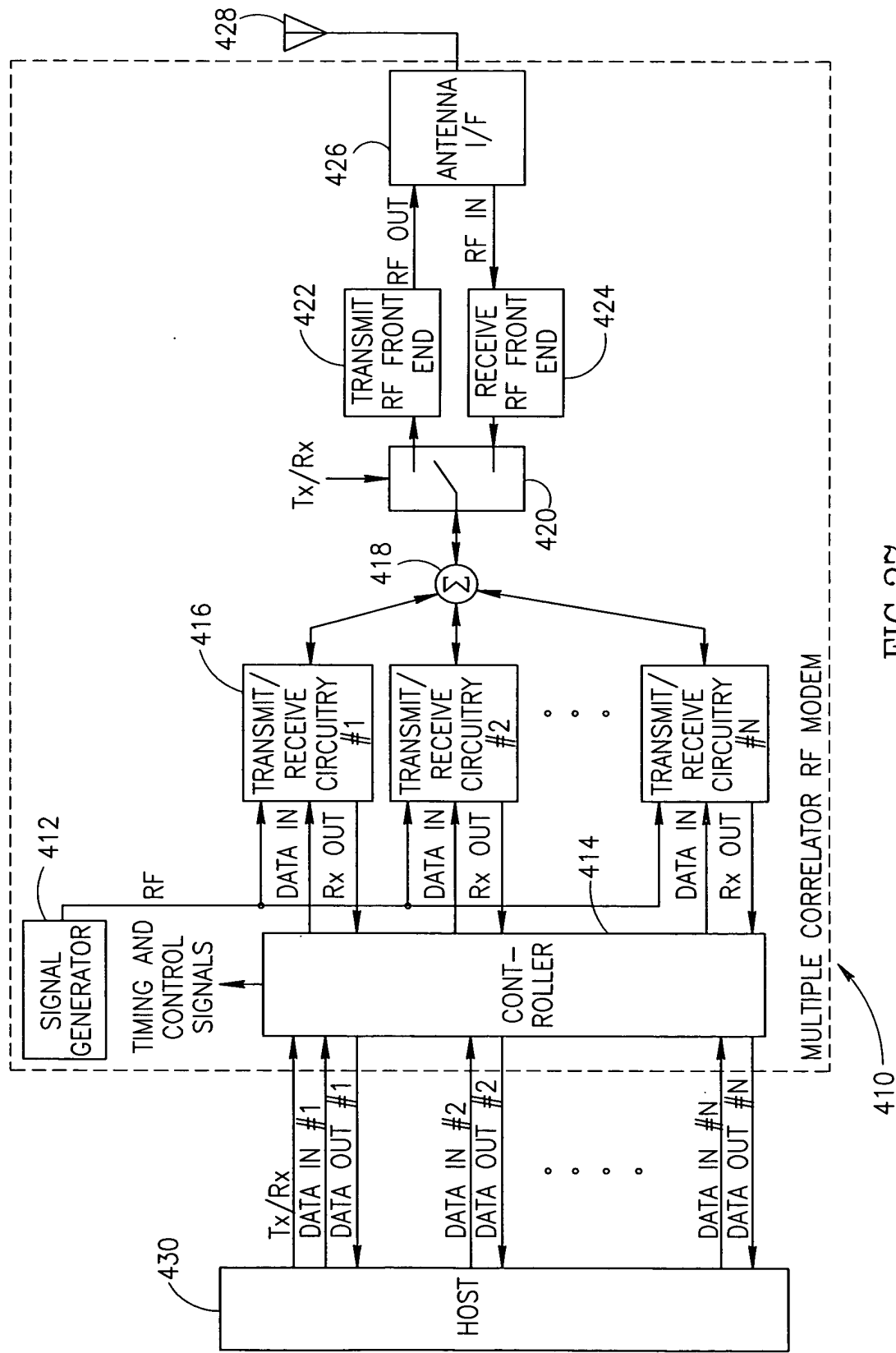


FIG.27

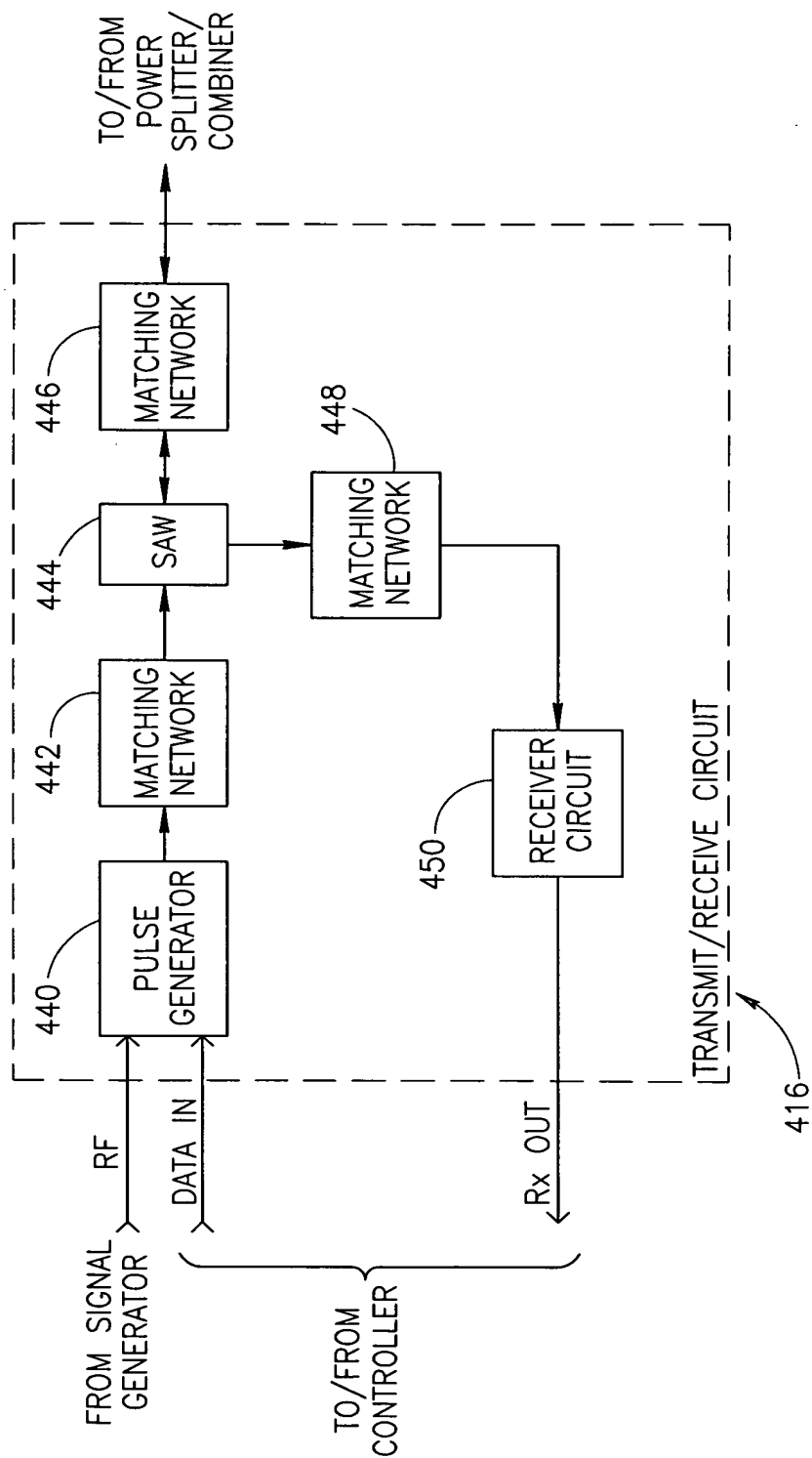


FIG. 28